Application Serial No. 09/427,639 Docket No. 740756-2053 Art Unit 2675

Page 2

A. 35 U.S.C. §103 Rejections

Claims 1-9 stand rejected under 35 U.S.C. §103(a) as unpatentable over Applicant's

Admitted Prior Art in view of U.S. Patent No. 4,090,219 to Ernstoff et al. (Hereinafter

"Ernstoff"), claims 10-31 stand rejected under 35 U.S.C. §103(a) as unpatentable over

Applicant's Admitted Prior Art in view of Ernstoff and U.S. Patent No. 5,528,262 to McDowall

et al. (Hereinaster "McDowall"), claims 32-34 stand rejected under 35 U.S.C. §103(a) as

unpatentable over Applicant's Admitted Prior Art in view of Ernstoff and U.S. Patent No.

5,327,229 to Konno et al. (Hereinafter "Konno"), and claims 35-45 stand rejected under 35

U.S.C. §103(a) as unpatentable over Applicant's Admitted Prior Art in view of Ernstoff, Konno

and McDowall. Applicant respectfully traverses these rejections for at least the following

reasons.

1. Summary of the Invention

The claimed method in accordance with independent claims 1 and 9 is directed generally

to a driving method for a liquid crystal display including a step of compressing original video

signals by 1/(3n) times in a time axis direction. As result of this method, one image frame Tf is

divided into a plurality of subframes, and during each subframe, three color images of red, green

and blue are sequentially displayed.

The claimed invention in accordance with independent claims 3 and 6 is directed

generally to a liquid crystal display, including, inter alia, an n-speed field sequential color signal

generation circuit operationally connected to at least one backlight and a display section.

Application Serial No. 09/427,639 Docket No. 740756-2053

Art Unit 2675

Page 3

The claimed method in accordance with independent claims 32-34 is directed generally to

a method for displaying a liquid crystal display comprising a step of compressing an original red,

green and blue video signal, respectively entered from outside by 1/(3n) times into a respective

red, green and blue video signal, "n" being an integer larger than 2 and represents a number of

subframes comprising a single frame.

2. Examiner's Failure to Consider Each and Every Claimed Feature

In reviewing the Office Action, it appears that the Examiner fails to consider the

amended subject matter set forth in independent claims 3 and 6. In particular, the feature "an n-

speed field sequential color signal generation circuit operationally connected to said at least one

backlight and said display section," was not specifically addressed by the Examiner. Please note

that in accordance with §2116.01 of the M.P.E.P., "all the limitations of a claim must be

considered when weighing the differences between the claimed invention and the prior art when

determining the obviousness of a process or method claim." See also M.P.E.P. §2143.03.

Applicant respectfully request that the Examiner afford full consideration to the aforementioned

claimed feature.

Notwithstanding the above comments, the proposed combination of Applicant's

Admitted Prior Art and Ernstoff both lack any teaching, disclosure or suggestion of a liquid

crystal display that includes an n-speed field sequential color signal generation circuit

operationally connected to at least one backlight and a display section. Insofar as each cited

reference fails to disclose this feature, a case of prima facie obviousness against the rejected

Application Serial No. 09/427,639 Docket No. 740756-2053

Art Unit 2675

Page 4

claims cannot be supported. Accordingly, withdrawal of the rejection with respect to these

claims and the claims depending therefrom is respectfully solicited.

3. The Proposed Combination of References Fails to Disclose the Claimed Invention

Applicant further contends that Applicant's Admitted Prior Art, either alone or in

combination with Ernstoff, Konno and/or McDowall, clearly fails to teach, disclose or suggest

the claimed subject matter of independent claims 1 and 9. In particular, the alleged Admitted

Prior Art, as conceded by the Examiner, clearly fails to disclose compressing original video

signals by 1/(3n) times in a time axis direction. Moreover, the Examiner concedes that the

secondary reference Ernstoff merely discloses a color display in which one image frame

comprises 2 fields, and thus, lacks an image frame having three fields. The secondary references

Konno and McDowall fail to adequately modify the aforementioned references since it also fails

to disclose such features.

Hence, it appears that the Examiner has taken individual teachings from the cited

references in order to support a prima facie case of obviousness in spite of the lack of any

motivation or suggestion contained therein that promotes their combination. It is well established

that obviousness can only be established by combining or modifying the teachings of the prior

art to produce the claimed invention where there is some teaching, suggestion or motivation to

do so found in the references themselves or in the knowledge generally available to one of

ordinary skill in the art. In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988).

In the present situation, there is no suggestion in Applicant's Admitted Prior Art that

supports it being modified so as to include a step of compressing original video signals by 1/(3n)

Application Serial No. 09/427,639 Docket No. 740756-2053 Art Unit 2675

Page 5

times in a time axis direction. Further, Ernstoff lacks any disclosure that supports it being

modified so as to include an image frame comprising 3 fields. As previously mentioned, Konno

and McDowall both lack any disclosure regarding the aforementioned references.

Therefore, the proposed combination of Applicant's Admitted Prior Art, Ernstoff, Konno

and McDowall is improper insofar as each cited reference lacks any disclosure that would

support the desirability of their resultant combination. The mere fact that references can be

combined or modified does not render the resultant combination obvious unless the prior art also

suggests the desirability of their combination. In re Mills, 916 F.2d 680, 16 USPQ2d 1430 (Fed.

Cir. 1990); M.P.E.P. §2143.01 (2001).

In view of the foregoing, a case of prima facie obviousness cannot be supported.

Withdrawal of the rejection with respect to the claims is respectfully solicited.

4. The Proposed Combination of References Fails to Disclose Claims 32-45

Regarding the rejection of claims 32-45, it is respectfully contended that the subject

application lacks any admission regarding a method of driving a liquid crystal display that

includes a step of compressing an original red, green and blue video signal, respectively entered

from outside by 1/(3n) times into a respective red, green and blue video signal. For instance, the

claimed invention resulted from attempts made by the present inventors to overcome the

deficiencies in the conventional sequential method, which has an operational defect due to the

fact that the red, green and blue images are each displayed once for one-third the duration of one

frame. Such a design results in a flicker of the screen, which is very undesirable. Consequently,

the present inventors sought to overcome this deficiency by dividing one frame into plural

Application Serial No. 09/427,639 Docket No. 740756-2053

Art Unit 2675

Page 6

subframes so as to sequentially display the three color images in each subframe. As shown in

Fig. 5 of the detailed drawings, this concept is realized by providing an n-speed field sequential

color signal generation circuit (403) which compresses original video signals R, G and B by

1/(3n) times in a time axis direction.

Hence, no admission exists for a method of driving a liquid crystal display that includes a

step of compressing an original red, green and blue video signal, respectively entered from

outside by 1/(3n) times into a respective red, green and blue video signal. Thus, the proposed

combination of references is improper insofar as the secondary references Ernstoff, McDowall

and Konno fail to modify this deficiency since neither reference teaches or discloses such a

feature. Accordingly, Applicant requests withdrawal of the rejections with respect to claims 32-

45.

Application Serial No. 09/427,639 Docket No. 740756-2053 Art Unit 2675 Page 7

Conclusion

Because the claimed invention as presently amended clearly defines over the prior art of record, Applicant respectfully requests reconsideration and withdrawal of the rejection. Should the Examiner believe that anything further would be desirable to place this application in better condition for allowance, the Examiner is invited to contact Applicant's undersigned attorney at the telephone number listed below.

Respectfully submitted,

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